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RAW SEQUENCE LISTING

DATE: 09/24/2004

PATENT APPLICATION: US/10/757,803

TIME: 13:35:39

Input Set : D:\03-465-C_400.142 SeqListing.txt

Output Set: N:\CRF4\09242004\J757803.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.

4 Haeberli, Peter

5 McSwiggen, James

6 Beigelman, Leonid

7 Macejak, Dennis

8 Zinnen, Shawn

9 Pavco, Pamela

10 Morrissey, David

11 Fosnaugh, Kathy

12 Jamison, Sharon

13 Vaish, Nerendra

14 Chowrira, Bharat

15 Usman, Nassim

16 James, Thompson

17 Vargeese, Chandra

18 Wang, Weimen

19 Tongqian, Chen

21 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Gene Expression

Using

22 Chemically Modified Short Interfering Nucleic Acid (siNA)

24 <130> FILE REFERENCE: 400/142 (03-465-C)

26 <140> CURRENT APPLICATION NUMBER: US 10/757,803

27 <141> CURRENT FILING DATE: 2004-01-14

29 <150> PRIOR APPLICATION NUMBER: US 10/720,448

30 <151> PRIOR FILING DATE: 2003-11-24

32 <150> PRIOR APPLICATION NUMBER: US 10/693,059

33 <151> PRIOR FILING DATE: 2003-10-23

35 <150> PRIOR APPLICATION NUMBER: US 10/444,853

36 <151> PRIOR FILING DATE: 2003-05-23

38 <150> PRIOR APPLICATION NUMBER: US 10/652,791

39 <151> PRIOR FILING DATE: 2003-08-29

41 <150> PRIOR APPLICATION NUMBER: US 10/422,704

42 <151> PRIOR FILING DATE: 2003-04-24

44 <150> PRIOR APPLICATION NUMBER: US 10/417,012

45 <151> PRIOR FILING DATE: 2003-04-16

47 <150> PRIOR APPLICATION NUMBER: US 10/427,160

48 <151> PRIOR FILING DATE: 2003-04-30

50 <150> PRIOR APPLICATION NUMBER: PCT/US03/05346

51 <151> PRIOR FILING DATE: 2003-02-20

53 <150> PRIOR APPLICATION NUMBER: PCT/US03/05028

54 <151> PRIOR FILING DATE: 2003-02-20

56 <150> PRIOR APPLICATION NUMBER: US 60/358,580

57 <151> PRIOR FILING DATE: 2002-02-20

59 <150> PRIOR APPLICATION NUMBER: US 60/363,124

(pg. 6-7)

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63 <151> PRIOR FILING DATE: 2002-06-06
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77 <150> PRIOR APPLICATION NUMBER: PCT/US02/15876
78 <151> PRIOR FILING DATE: 2002-05-17
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Input Set : D:\03-465-C_400.142 SeqListing.txt

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/757,803

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Input Set : D:\03-465-C_400.142 SeqListing.txt
Output Set: N:\CRF4\09242004\J757803.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:67; N Pos. 20,21
Seq#:68; N Pos. 20,21
Seq#:69; N Pos. 20,21
Seq#:70; N Pos. 20,21
Seq#:71; N Pos. 20,21
Seq#:72; N Pos. 20,21
Seq#:73; N Pos. 20,21
Seq#:74; N Pos. 20,21
Seq#:75; N Pos. 20,21
Seq#:76; N Pos. 20,21
Seq#:77; N Pos. 20,21
Seq#:78; N Pos. 20,21
Seq#:79; N Pos. 20,21
Seq#:80; N Pos. 20,21
Seq#:82; N Pos. 14,15
Seq#:84; N Pos. 12,13
Seq#:85; N Pos. 20,21
Seq#:86; N Pos. 20,21
Seq#:87; N Pos. 20,21
Seq#:88; N Pos. 20,21
Seq#:89; N Pos. 20,21
Seq#:90; N Pos. 20,21
Seq#:91; N Pos. 20,21
Seq#:92; N Pos. 20,21
Seq#:93; N Pos. 20,21
Seq#:94; N Pos. 20,21
Seq#:95; N Pos. 20,21
Seq#:96; N Pos. 20,21
Seq#:97; N Pos. 20,21
Seq#:98; N Pos. 20,21
Seq#:99; N Pos. 20,21
Seq#:100; N Pos. 20,21
Seq#:101; N Pos. 20,21
Seq#:102; N Pos. 20,21
Seq#:103; N Pos. 20,21
Seq#:104; N Pos. 20,21
Seq#:105; N Pos. 20,21
Seq#:106; N Pos. 20,21
Seq#:107; N Pos. 20,21
Seq#:108; N Pos. 20,21
Seq#:109; N Pos. 20,21
Seq#:110; N Pos. 20,21
Seq#:111; N Pos. 20,21
Seq#:112; N Pos. 20,21

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Input Set : D:\03-465-C_400.142 SeqListing.txt
Output Set: N:\CRF4\09242004\J757803.raw

Seq#:113; N Pos. 20,21
Seq#:114; N Pos. 20,21
Seq#:115; N Pos. 20,21
Seq#:116; N Pos. 20,21
Seq#:117; N Pos. 20,21
Seq#:118; N Pos. 20,21
Seq#:119; N Pos. 20,21

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:175; Line(s) 3572
Seq#:290; Line(s) 5628
Seq#:474; Line(s) 13068
Seq#:478; Line(s) 13275
Seq#:482; Line(s) 13477
Seq#:486; Line(s) 13649
Seq#:490; Line(s) 13821
Seq#:494; Line(s) 13993
Seq#:498; Line(s) 14170
Seq#:502; Line(s) 14352
Seq#:506; Line(s) 14529
Seq#:521; Line(s) 14799
Seq#:522; Line(s) 14831
Seq#:523; Line(s) 14858
Seq#:524; Line(s) 14885
Seq#:525; Line(s) 14912
Seq#:526; Line(s) 14944
Seq#:527; Line(s) 14976
Seq#:528; Line(s) 15009
Seq#:529; Line(s) 15042

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L:1433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
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L:1474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:1522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0
L:1545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:1568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:1591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:1614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
L:1690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0
L:1713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:1766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:1849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
L:1872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:1943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:1961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:1979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
L:1997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:2015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
L:2033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
L:2051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
L:2069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:2087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:0
L:2105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0
L:2123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0
L:2141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0
L:2184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0
L:2207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:2255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0
L:2278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0
L:2301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
L:2324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0
L:2347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:2365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:0
L:2383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0
L:2401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:2419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:0
L:2437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0
L:2455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:2473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0
L:2491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0
L:2509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
L:2527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0

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L:2545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
L:2563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0
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L:14764 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (518) SEQUENCE:
L:14770 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (519) SEQUENCE:
L:14775 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (520) SEQUENCE:
L:15099 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (531) SEQUENCE: